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## INFORMATION REPORT INFORMATION REPORT

## CENTRAL INTELLIGENCE AGENCY

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		C-O-N-F-I-D-E-N-T-I-A-L	50X	1-HUM
COUNTRY	USSR (Moscow Oblast)	REPORT		
SUBJECT	Borets Machine Construct Moscow; (descripti		R. 14 September 1960	
	security, to	ansportation	4	
	- Surgeri	REFERENCE	S RD	50X1-HUM
DATE OF INFO.			<u>;</u>	
PLACE & DATE ACQ.				
THIS IS	UNEVALUATED INFORMATION. SOL	JRCE GRADINGS ARE DEFINITIVE. AP	PRAISAL OF CONTENT IS TENTATIV	<u>ль. 50</u> X1-HU
	Attachment 1 is a four-p The report contains info subjects: transportation Personnel, and Security. Attachment 2 is a six-ps	Porets Machine Construction age report titled, "Bore principles or a very general and the construct to the construction of	ts Machine Construction l nature on the following rips, Organization and s Machine Construction	50X1-HUM
	Plant in Moscow". of machinery which was p 1956:	produced at the Borets Pla	nomenclature and descri	lption 046
	electri <b>ca</b> lly powered long, two to three m 1956 at an unknown r	(nasos davleniya). This pump with an engine blocketers high. These pumps ate, were believed to be cultural purposes. No of	ck about 1.5 meters , produced furing 1946- for the petroleum 2	> ABC 1845
			ction rate, use, cost, a uced during 1946-1956.	
			r ^	50X1-HUM
		C-O-N-F-I-D-E-N-T-I-A-I	nclosure at	50X1-HUM
STATE	X ARMY X NAVY X		nelacure al	50X1-HUM

	C-O-N <sub>5</sub> F-1-D-E-N-T-I-A-L	50X1-HUM
	-2-	
3.	KP-80. This was a compressor approximately three to four meters long, of heavy construction, which was mounted on wheels and drawn by a tractor.	
	Two or three machines were produced per month  The compressor's characteristics and use were	50X1-HUM
	unknown. many were destined for export to China and the Satellite countries.	50X1-HUM
٠.	PT-(). This was a steam turbine (parovaya turbina) (number wnknown). Its function, use, production rate,or destination were unknown. Parts for this machine were processed at Shop No. 2 for many years.	
ō.	MPS-(). This machine's nomenclature, production rate, or use were unknown	50X1-HUM
š.	TsN-(). This machine was believed to have been a centrifugal pump (tsentrobezhnyy nasos). Its characteristics, function, and production rate were unknown.	
<b>7</b> .	SG-8 this item was an electric-powered generator or compressor.	50X1-HUM
3.	SG-50. This was a machine similar to the SG-8, probably an improved type.	
•	EZh. This product was believed to have been an electric pump of very intricate design and construction ("E" - elektricheskiy; "Zh" - unknown).	
	The plastic rotor blades, or very light color, emitted a strong alcoholic-chemical odor during handling and were of considerable strength.	50X1-HUM
	this machine was in production at the plant during 1950-1956,	50X1-HUM
	production rate and use unknown. The pump housing could be connected to other similar shafts. this pump was used for extraction of petroleum.	50X1-HUM
).	K-65. This number was believed to have been the designation of a small.  compressor which was in production at the plant  The compressor was assembled	50X1-HUM
	in a special shop located within the assembly workshop and the OTK	X1-HUM
	workers were not military. These same air force officers would at times inspect or check the work done in Shop No. 2 on components parts for a	50X1-HUM
	Emmall insert bearing (vklacknoy podshipnik), made for the small compressor. The bearing was oval shaped, made of bronze with a steel shaft, and was 32 millimeters in inside diameter and approximately 100 millimeters in length.  The outer shell of the bronze housing had a number of square-shaped cut-outs believed to be made for the purpose of reducing the weight of the unit.	50X1-HUM
	the tolerance	50X1-HUM
	of the bearing shaft must have been 0.02 millimeters.  no other parts processed at Shop No. 2 for the small compressor. It was said that the bearing after completion was always tested in a container filled with kerosin - petroleum. The results of the tests were unknown. The units were shopped from the plant individually packed in small wooden boxes. The packing was done in the assembly shop, not as was customary for other items which were prepared for shipment in the packing and crating shop.	·
	There were no extensive discussions at the plant regarding these compressors, but it was common knowledge that they were made for the Soviet Air Force.  The first time the officers appeared at the plant must have been in 1953, not earlier.	50X1-HUM
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		50X1-HUM

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_ CO-N-F-I-D-E-N-T-I-A-L	
-3-	
11. A number of pistons wave produced at Borets, some of which were made duraluminum, 150 millimeters in diameter, 300 millimeters long, and which mesembled pistons for automobile engines.	of 50X1-HUM
Included in the report is an overlay of Mascow showing the Borets Machine Construction Plant location and surrounding are	] ea.
	50X1-HUM

C-O-N-F-I-D-E-N-T-I-A-L

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NTRY	USSIR (Mosk	ovskaya oblast)	REPORT		
JECT	'i Borets Machi	ne Construction	DATE O		
A	Plant	Compared Coton			
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	,	·	DATE OF REP	CRT: 20 May 1960	 50X1-l
		· · · · · · · · · · · · · · · · · · ·			50X1-HUM
	· .	BORETS MACHINE	CONSTRUCTION	PLANT	50X1-HUM
	Mho Donata Mach				
,	along the stree	ine Construction t (name unrecalle	Plant area ex	tended for about or shelter areas	one kilometer
	along the stree basement of the	ine Construction t (name unrecalle plant building w	Plant area ex	tended for about	one kilometer
	along the stree basement of the the spets otdel shops were bein	ine Construction t (name unrecalle plant building w	Plant area exed). There we	tended for about or shelter areas	one kilometer in the rolled by New 500
	along the stree basement of the the spets otdel shops were bein buildings.	ine Construction t (name unrecalle plant building w g constructed in	Plant area exed). There we which the area at t	tended for about re shelter areas were continued the management of	one kilometer in the rolled by New 500 in plant 50X1-HUM
2.	along the stree basement of the the spets otdel shops were bein buildings.  The main produc	ine Construction t (name unrecalle plant building w g constructed in	Plant area exed). There we which the area at t	tended for about re shelter areas were cont	one kilometer in the rolled by New 500 in plant 50X1-HUM
2.	along the stree basement of the the spets otdel shops were bein buildings.  The main produc	ine Construction t (name unrecalle plant building w g constructed in ts manufactured a	Plant area exed). There we which the area at t	tended for about re shelter areas were continued the management of	one kilometer in the rolled by New 500 in plant 50X1-HUM
2.	along the stree basement of the the spets otdel shops were bein buildings.  The main produc	ine Construction t (name unrecalle plant building w g constructed in ts manufactured a	Plant area exed). There we which the area at t	tended for about re shelter areas were continued the management of	one kilometer in the rolled by New 500 in plant 50X1-HUM
2. [	along the stree basement of the the spets otdel shops were bein buildings.  The main produc petroleum performant performa	ine Construction t (name unrecalle plant building w g constructed in ts manufactured a rating machines.	Plant area exed). There we which the area at the plant were many d	tended for about re shelter areas:  were continue the rear of the management of the	one kilometer in the rolled by New 50% in plant 50X1-HUM rs and
2. [	along the stree basement of the the spets otdel shops were bein buildings.  The main produc petroleum perfo  Transportation  Behind the main which originate	ine Construction t (name unrecalle plant building w g constructed in ts manufactured a rating machines.	Plant area exed). There we which the area at the plant were many daskiy Railroa	tended for about re shelter areas:  were continue to the management of the managemen	one kilometer in the rolled by New 500 in plant 50X1-HUM rs and
2. [	along the stree basement of the the spets otdel shops were bein buildings.  The main produc petroleum perfo  Transportation  Behind the main which originate the railroad ca entrance, and b	ine Construction t (name unrecalle plant building w g constructed in ts manufactured a rating machines.  plant area, ther d from the Beloru rs were flatcars y steam shunting	Plant area exed). There we which the area at the plant were many daskiy Railroadrawn by elections inside	tended for about re shelter areas:  were continued by the management of the main plant of the main plant.	one kilometer in the rolled by New 500 in plant 50X1-HUM rs and cad sidings ajority of he plant area. About
2. [	along the stree basement of the basement of the the spets otdel shops were bein buildings.  The main product petroleum performant the main which originate the railroad calentrance, and be 30 trucks (two.	ine Construction t (name unrecalle plant building w g constructed in ts manufactured a rating machines.  plant area, ther d from the Beloru rs were flatcars y steam shunting three and a half	Plant area exed). There we which the area at the plant we were many disskiy Railroadrawn by elections, four, six,	tended for about re shelter areas:  were continued for about re shelter areas:  were continued for about reaches are air compressor  ouble track railred Station. The main compressor to the main plant and seven-ton) track railred for an area for a	one kilometer in the rolled by  New 500 in plant  50X1-HUM rs and  oad sidings ajority of he plant area. About ansported
2.	along the stree basement of the the spets otdel shops were bein buildings.  The main produc petroleum performation  Behind the main which originate the railroad calentrance, and begin to the street of the street	ine Construction t (name unrecalle plant building w g constructed in ts manufactured a rating machines.  plant area, ther d from the Beloru rs were flatcars y steam shunting three and a half arger trucks came how (formerly St	Plant area exed). There we which the area at the the plant we askiy Railroadrawn by electengines inside, four, six, a from the Yarialin) Plant i	tended for about re shelter areas:  were continued by the management of the main plant of the main plant.	one kilometer in the rolled by  New 500 in plant  50X1-HUM rs and  oad sidings ajority of he plant area. About ansported the remainder Molotov Plant

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	Raw Materials				
4.	Iron ingots, the princip in Korocharovo, about 20 iron and steel to all Mo Kalinin Plant about 200 production of petroleum also about 200 kilometer	kilometers from Mos scow plants. Angle kilometers distant. perforating machines	cow, which supplied c iron was brought in f Metal pipe for use i	rude rom the n the	
5•	Truck drivers were requiarea of the unidentified Plant. Liquid oxygen wain Moscow in quantities 25-liter steel tanks convalves. Liquid oxygen we came from the Stankolit the liquid oxygen we plant machinery in an unification.	Moscow plant which as transported by true of about 20 tanks even taining liquid oxygen as also transported light which faced the as transformed into a	supplied oxygen to the from an unidentification three or four day had high necks and by tank trucks which	e Borets ed plant s. The escape probably known	50X1-HUM ] 50X1-HUN 1-HUM
6.		ehouse of an unidential was used for escar plates about two methodic fiber pipe abouter were brought in uyevo. The plates we olished and shiny. In the method ick for use in the methodic ships of the method and ships of the	afied plant in Yaroslape valve silencers of eters by one and one- out one meter in length frequently from an ere of a dull reddish. The pipe was cut into otors produced at the	avl. r exhaust half meters th and unidenti- brown segments Borets	50X1-HUM
<b>-</b>	Truck Trips				¬50X1-HUM
7•	before Kalinin, there was length. This bridge was required to stop and shor guards were dressed in re longed to the MVD.	s a bridge approximat guarded by army pers w their vehicle docum	connel, and truck dri	in vers were	50X1-HUM
<b>3.</b> [	from Moscow, to Bykovka	the airfields i	n Vnukovo about 30 k: ovo, N 55-37, E 38-04	ilometers ) / about	
		CONFIDENTIAL			50X1-HUM

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	<b>-3-</b>	
	40 kilometers from Moscow, and to the pier in Severnyy Port at the end of Leningradskoye shosse, about 25 kilometers from the center of Moscow and half way to Khimki. The truck route was along Borovskoye shosse to Vnukovo airfield in Kuntsevskiy rayon (Kuntsevo, N 55-44, E 37-27). On several occasions noise of jet aircraft at this airfield 50X1-which was guarded by Air Force personnel. There were many metal towers near the civilian airfield. All the roads in the area were well-paved. The airfield in Bykovka, in Podolskiy rayon, was primarily used for air freight traffic, although there was a small amount of passenger traffic. The canal piers were guarded by sailors who wore the regular blue navy uniform.	
9.	The Borets Plant had a special section called plant supply which handled documentation for every trip. If the trip required remaining away over night, it was essential to have a komandirovka. The route sheet stated vehicle destination. Truck documentation consisted of a cardboard license stating destination, vehicle engine number, tonnage, and date of last vehicle inspection. Trucks were inspected every six months. When requested documents had to be shown to the traffic police or military ferce personnel.	<b>.</b> ,
	Organization and Personnel	
10.	The plant employed about 4,000 workers, of whom about 90 percent were specialists, i.e. fourth category workers or above. Prior to 1949, PW's, Germans and Rumanians worked at the plant. Every shop chief was assisted by a CP secretary, a partorg, and a labor union chief, profsorg. If there were more than 500 workers in a shop, the CP secretary and labor union official did not have a work assignment but attended to their respective duties. Every shop had a starshiy master and corresponding masters for the various types of jobs. The main directorate, zavkom, consisted of the plant director, the CP secretary, the labor union chief, the chief engineer, and the assistant director.	50X1-HUM
11.	The <u>spets</u> otdel was in charge of information and keeping plant secret documents.	50X1-HUN
12.	The garage personnel included a chief, assistant chief, as dispatcher, a chief mechanic, a profsorg, a partorg, a komsorg, mechanics, drivers, and office personnel, a total of about 50 employees.	
13.	following plant personalities:	50X1-HUN
'	Sergey Ivanovich or Vasilyevich, plant director, petroleum engineer	50X1-HUM
	Nikolay or Nikolayev (fnu) plant partorg;	
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		50X1-HUM

Lebedev, (fnu),  Smirnov (fnu),  Plant Security  4. There were about	confidential  -4-  assistant director  garage chief
Smirnov (fnu),  Plant Security  4. There were about	assistant director 50X1-HUM
Smirnov (fnu),  Plant Security  There were about	assistant director
Plant Security  There were about	garage chief
. There were about	
contained a phot workers, such as had a special pa	12 guards armed with rifles and carbines at the entrance interior of the plant area was guarded. The propusk ograph and shop number. Construction shop (shop No. 12) carpenters, masons, fitters, assemblers, and plumbers, ss with a border, which permitted them access to all sections. the high reinforced concrete tower in the plant area was 50X1-HU
for defense agai	nst aerial attack. Plant firemen who operated two fire y practiced fire drills every Sunday.

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COUNTRY: USER (Moskovakaya oblast)  REPORT  BUBJECT: Borets Machine Construction Plant in Moscow  DATE A  DATE OF REPORT: 31 May 1960  500  BORETS MACHINE CONSTRUCTION PLANT IN MOSCOW  1. Machine Construction Plant in Moscow  The Borets 50X1  Reports Plant, known to source as Mashinostroitelmyy Zevod, was subordinate	BJECT: Borets Machine Construction Plant in Moscow  DATE OF REPORT: 31 May 1960  DATE OF REPORT: 31 May 1960  DATE OF REPORT: 31 May 1960  1.
BORETS MACHINE CONSTRUCTION PLANT IN MOSCOW  1. Machine Construction Plant in Moscow  BORETS MACHINE CONSTRUCTION PLANT IN MOSCOW  The Borets Plant, known to source as Mashinostroiteleyy Zavod, was subordinate	BJECT: Borets Machine Construction Plant in Moscow  DATE OF REPORT: 31 May 1960  DATE OF REPORT: 31 May 1960  DATE OF REPORT: 31 May 1960  1.
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of the minipulation of the fundamental of in	Dzerzhinskiy rayon, Moscow (see overlay of Moscow Map - 5UXI-HU
The plant was located on Skishochings ulites (maker anicoality) - 50X1-	prefraintly layers however to company to company
The plant employed close to 5.000 personnel.	AUM DINUE SENTOLES CTORE OF NOT PARTICIPATION
Gerasimov (fnm), the director of the plant during 1954-1956.	
50V1 HIIM	
Plant Products	Gerasimov (fmu), the director of the plant during 1954-1956.
2 The tesks performed in machine show No. 2 involved the cleaning, grinding,	
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	meters long, two to three meters high. These pumps p 1946-1956, at an unknown rate, were believed to be for petroleum industry or for agricultural purposes. No tions were known.	or the	
b.	ND-40. This was a double-cylinder, pressure pump of the ND-20, weight unknown. The pump's production rat sale price were unknown. The ND-40 was produced duri	ce, use, cost, and	
c.	KP-60. This was a compressor approximately three to heavy construction, which was mounted on wheels and d Two or three machines were produced per month	irawn by a tractor.	50X1-HUM
	The compressor's characteristic unknown. many were destined for and the Satellite countries.	export to China	50X1-HUM
1.		humber unknown). e unknown. Parts	
Э.	MPS-( ). This machine's nomenclature, production rat	e, or use were	50X1-HUN
f.	TsN-(). This machine was believed to have been a ce (tsentrobezhnyy nasos). Its characteristics, function, rate were unknown.		
3•	SG-6. this item was an electric-power compressor.	red generator or	50X1-HUM
1.	SG-50. This was a machine similar to (g) above, prob type.	ably an improved	
ί.	EZh. This product was believed to have been an elect intricate design and construction ("E" - elektrichesk The plastic rotor blades, of very light color, emitte chemical odor during handling and were of considerable	iy; "Zh" - unknown) d a strong alcoholi e strength.	.C-
	this machine was in production at the p production rate and use unknown. The pump housing co other similar shafts. this pump extraction of petroleum.	puld be connected to was used for	<sup>50</sup> 50X1-HUM 50X1-HUM
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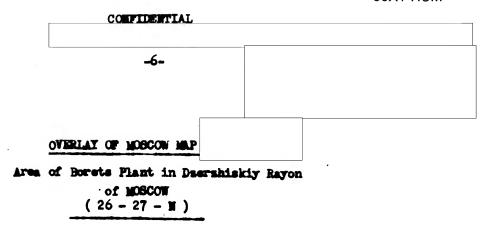
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4	WAS miles worther the best heart have the destruction of	
j.	K-65. This number was believed to have been the designation of a small compressor which was in production at the plant	·
	The compressor was assemble	=d 50X1-HUW
	in a special shop located within the assembly workshop and the OTK	
	inspections were conducted by Soviet Air Force officers, who intermittently appeared at the plant whenever a number of these compressor	
	were assembled. The production of the compressors was not continuous	
	At times six to eight such units would be assembled during one month,	
	on the other hand, several months would go by without producing any.	
		50X1-HUM
	The supervisors and si	nop
	workers were not military. These same air force officers would at time	nes
	inspect or check the work done in Shop No. 2 on component parts for a	
	small insert bearing (vkladnoy podshipnik), made for the small compress The bearing was oval shaped, made of bronze with a steel shaft, and was	
	32 millimeters in inside diameter and approximately 100 millimeters in	
	length. The outer shell of the bro	onze 50X1-HUM
	housing had a number of square-shaped cut-outs, believed to be made for	or
	the purpose of reducing the weight of the unit.	50X1-HUM
	the tole	
	of the bearing shaft must have been 0.02 millimeters.	no
	other parts processed at Shop No. 2 for the small compressor. It was	
	that the bearing after completion was always tested in a container fil	
	with kerosin - petroleum. The results of the tests were unknown. The units were shipped from the plant individually packed in small wooden	
	The packing was done in the assembly shop, not as was customary for of	boxes.
	items which were prepared for shipment in the packing and crating shop	)•
	Whether or not the air force officers supervised the packing was unknown	
	There were	e 50X1-HUM
	no extensive discussions at the plant regarding these compressors, but it was common knowledge that they were made for the Soviet Air Force.	; 30X1-110IVI
	The first time the officers appeared at the plant must have been in 19	153
	not earlier.	73,
•	A number of pistons were produced at Borets, some of which made of dur 150 millimeters in diameter, 300 millimeters long, and which resembled	aluminum,
	pistons for automobile engines.	50X1-HUM
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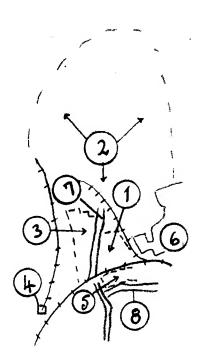
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	Other Plants
4.	Some raw materials were received at Borets from the Moscow plant, Krasnaya Med, location unknown. Bearings, ball and roller, were supplied by an unknown Moscow plant, whereas pipe, pistons and other metal supplies were received from a plant in Leningrad. The foundry of Borets Plant was small, and engine blocks were supplied to the plant from the Stankolit Plant located across the street on Skladochnaya ulitsa. (See overlay, page 6). the pistons supplied from Leningrad were similar to those previously received for which the Borets Plant paid 500 rubles per unit. The pistons supplied 50X1-HUM from Leningrad were considerably less expensive.
	Special Material
5•	various small parts such as bushing rings, sleeves, and casings, were made at the plant, and processed in the machine shops from a material which he named sarmayt (sic). This metal was composed of a special mixture of metals or alloys which produced a very hard steel.  this metal was a Soviet development and it was not known in the Western world.  no nickel-plated pumps produced at the plant.
	Security
6.	there were a number of watch-50X1-HUM towers placed at intervals along the plant's perimeter fence. The watchtowers ware already in existence in 1946 and served as part of the security system so well known at most of the Soviet factories and plants.  50X1-HUM the guard system at Borets was in existence more to keep the workers inside the plant during working hours, than to protect the plant from intrusion of unauthorized visitors. Many workers used to jump the fence during 50X1-HUM their work shifts to take a few hours off, or to do some last minute shopping in town. The plant pass was always retained by the employees, and was only shown to the entrance guard when reporting for work.
	Overlay of Moscow Showing Plant Location and Surrounding Area
7.	The following legend identifies numerically designations on overlay provided on page 6:
	1. Location of Borets Plant.
	2. Butyrskiy Khutor sector, which underwent an extensive transformation after 1946. During the years 1953-1956, many fields and marshes of this area were converted into residential sections. Many large apartment buildings
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	were in process or construction	
3•	Stankolit Plant. A large plant employing more personnel than Borets Plant. It was said that there was a night incidence of tuberculosis among the workers.	50X1-HUM
4.	Savelovo Railroad Station.	
<b>5•</b>	Tverdyy Splav plant area. This plant produced a variety or cutting blades for metal processing lattnes.	50X1-HUM
<b>6.</b>	Residential area.	
7.	Skladocnnaya ulitsa.	
<b>8.</b>	Polkovaya ulitsa.	50X1-HUM

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